

CLAIMS

What is claimed is:

1. A refrigerator, comprising:
a cabinet comprising a storage compartment ;
an evaporator ;
a refrigerant pipe;
a first defrost water tray, positioned so as to collect water formed on the evaporator, the first defrost water tray having a first drain port to drain water from the first defrost water tray;
a second defrost water tray, positioned so as to collect water formed on the refrigerant pipe, and water drained from the first defrost water tray through the first drain port, the second defrost water tray having a second drain port to drain water from the second defrost water tray;
and
a drain guide hose, connected to the second drain port, to drain water from the second drain port to an outside of the cabinet.
2. The refrigerator according to claim 1, wherein the second defrost water tray further comprises a heating element defrosting the refrigerant pipe, and a heat transfer plate distributing heat from the heating element throughout the second defrost water tray.
3. The refrigerator according to claim 1, wherein the evaporator is located in air-cooling chamber defined at a rear portion of a top of the cabinet, and the refrigerant pipe extends from a machine room, defined at a front portion of the top of the cabinet, to the evaporator while passing through an upper portion of the storage compartment.
4. The refrigerator according to claim 1, wherein the water formed on the evaporator and the water formed on the refrigerant pipe are the result of defrosting.
5. The refrigerator according to claim 1, wherein the cabinet further contains a heating element defrosting the refrigerant pipe.
6. The refrigerator according to claim 1, wherein the first defrost water tray is located under the evaporator.

7. The refrigerator according to claim 1, wherein the second defrost water tray is located under the refrigerant pipe.

8. The refrigerator according to claim 1, wherein the second defrost water tray is located under the refrigerant pipe and the first defrost water tray.

9. A refrigerator, comprising:
a cabinet defining a storage compartment therein;
an evaporator ;
a first defrost water tray positioned to collect water formed on the evaporator, the first defrost water tray having a first drain port to drain water from the first defrost water tray, and a drain guide hose to drain water from the first drain port to an outside of the cabinet; and
a second defrost water tray positioned so as to collect water formed on the refrigerant pipe, the second defrost water tray having a second drain port to drain water from the second defrost water tray into the first defrost water tray.

10. The refrigerator according to claim 9, wherein the water formed on the evaporator and the water formed on the refrigerant pipe are the result of defrosting.

11. The refrigerator according to claim 9, wherein the second defrost water tray further comprises a heater defrosting the refrigerant pipe and a heat transfer plate to distribute heat from the heater throughout the second defrost water tray.

12. The refrigerator according to claim 9, wherein the first defrost water tray is located under the evaporator.

13. The refrigerator according to claim 9, wherein the second defrost water tray is located under the refrigerant pipe.

14. The refrigerator according to claim 9, wherein the first defrost water tray is located under the evaporator and the second defrost water tray.

15. The refrigerator according to claim 9, wherein the refrigerator further comprises a heating element defrosting the refrigerant pipe.

16. The refrigerator according to claim 9, wherein the evaporator is located in an air-cooling chamber defined at a rear portion of a top of the cabinet, and the refrigerant pipe extends from a machine room, defined at a front portion of the top of the cabinet, to the evaporator while passing through an upper portion of the storage compartment.

17. A refrigerator comprising:

a cabinet, containing a storage compartment;

a refrigerant pipe;

a defrost water tray positioned to collect water formed on the refrigerant pipe.

18. The refrigerator according to claim 17, further comprising:

an evaporator; and

a second defrost water tray positioned to collect water formed on the evaporator.

19. The refrigerator according to claim 18, wherein either the defrost water tray or the second defrost water tray is positioned so as to collect water drained from the other defrost water tray.

20. The refrigerator according to claim 19, further comprising:

a drain port; and

a drain guide hose;

wherein the drain port is located in either the defrost water tray or the second defrost water tray,

the drain port is attached to the drain guide hose, and

the drain guide hose drains water to an outside of the refrigerator.

21. A refrigerator comprising:

an evaporator;

a refrigerant pipe;

a first defrost water tray, positioned to collect water formed by the evaporator; and

a second defrost water tray, positioned to collect water formed on the refrigerant pipe;

wherein, one of the defrost water trays is positioned so as to receive water collected in the other tray.

22. The refrigerator according to claim 21, wherein the first defrost water tray is positioned so as to receive water from the second defrost water tray.

23. The refrigerator according to claim 21, wherein the second defrost water tray is positioned so as to receive water from the first defrost water tray.